

Figure 1

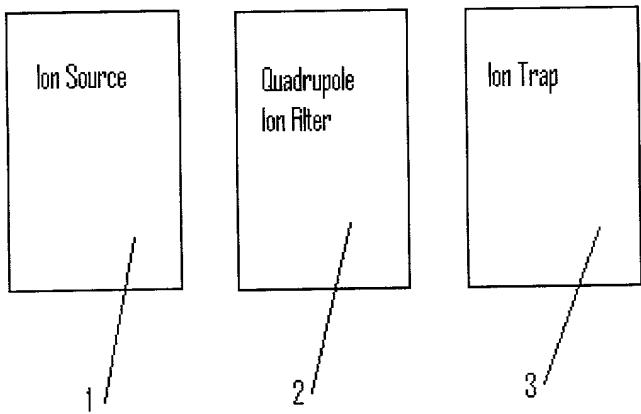


Figure 2

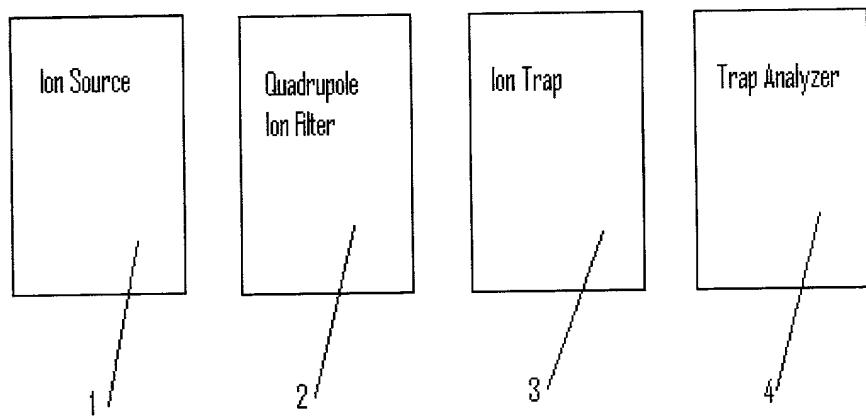


FIGURE 3

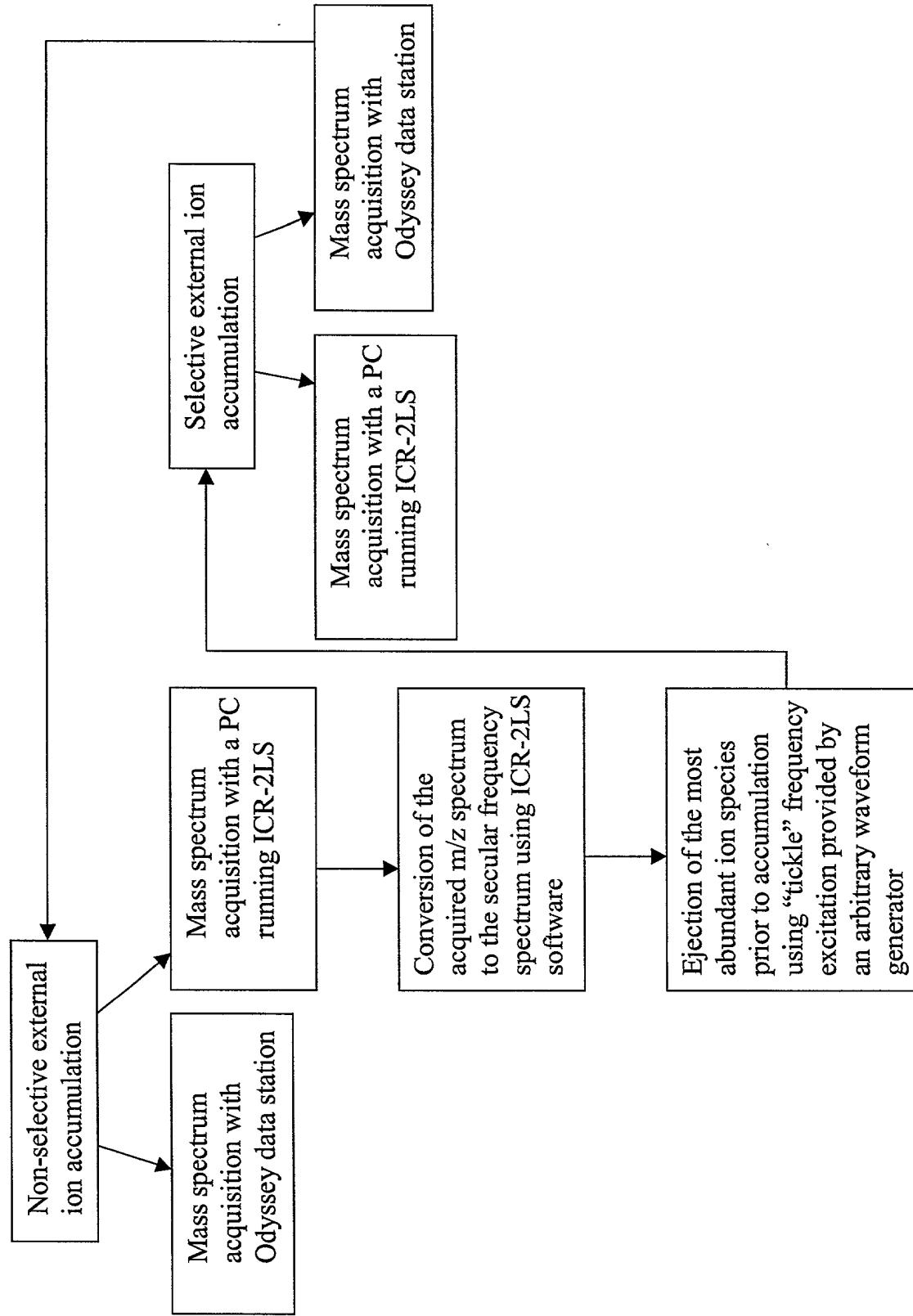


FIGURE 4

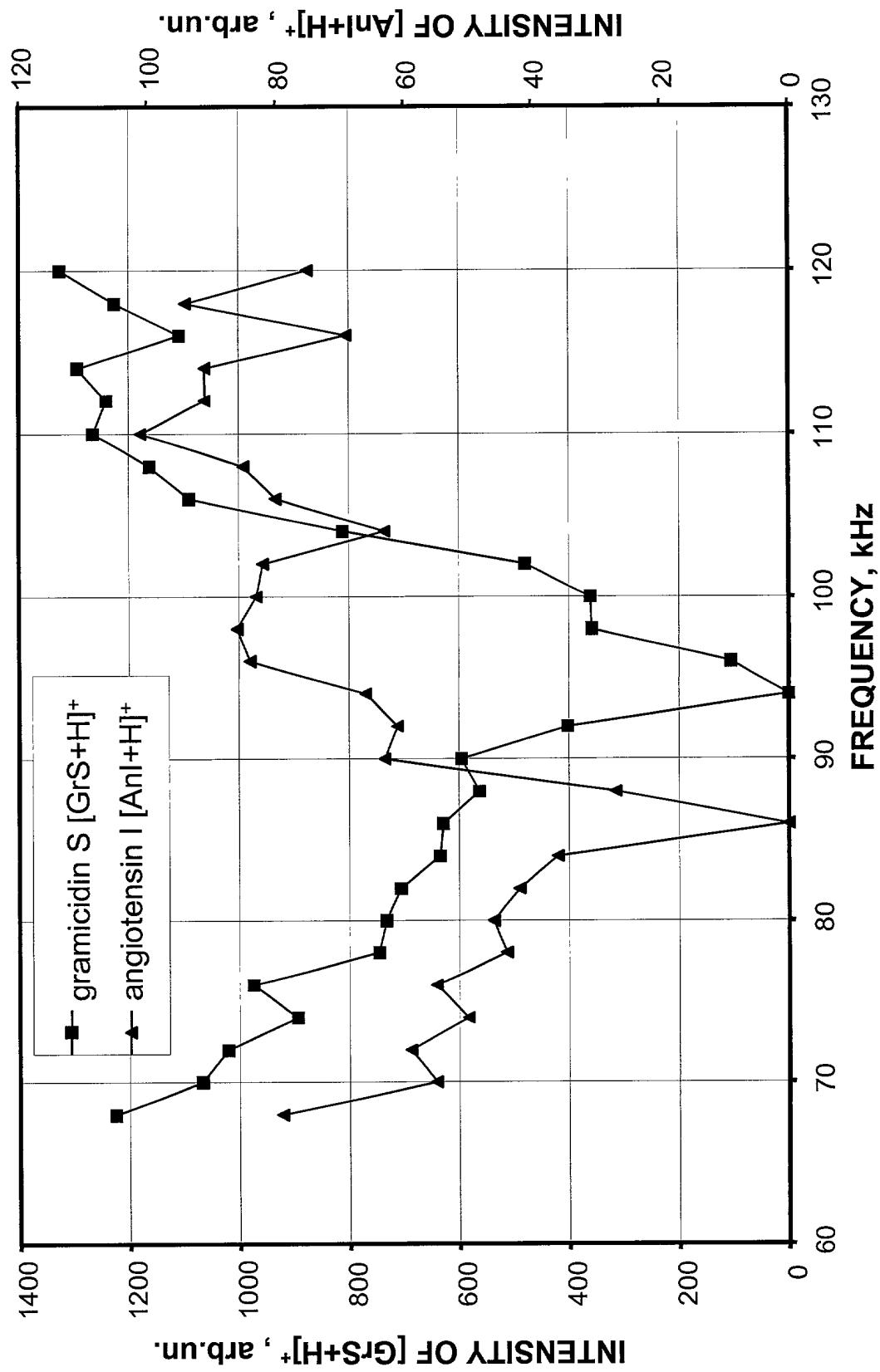


FIGURE 5

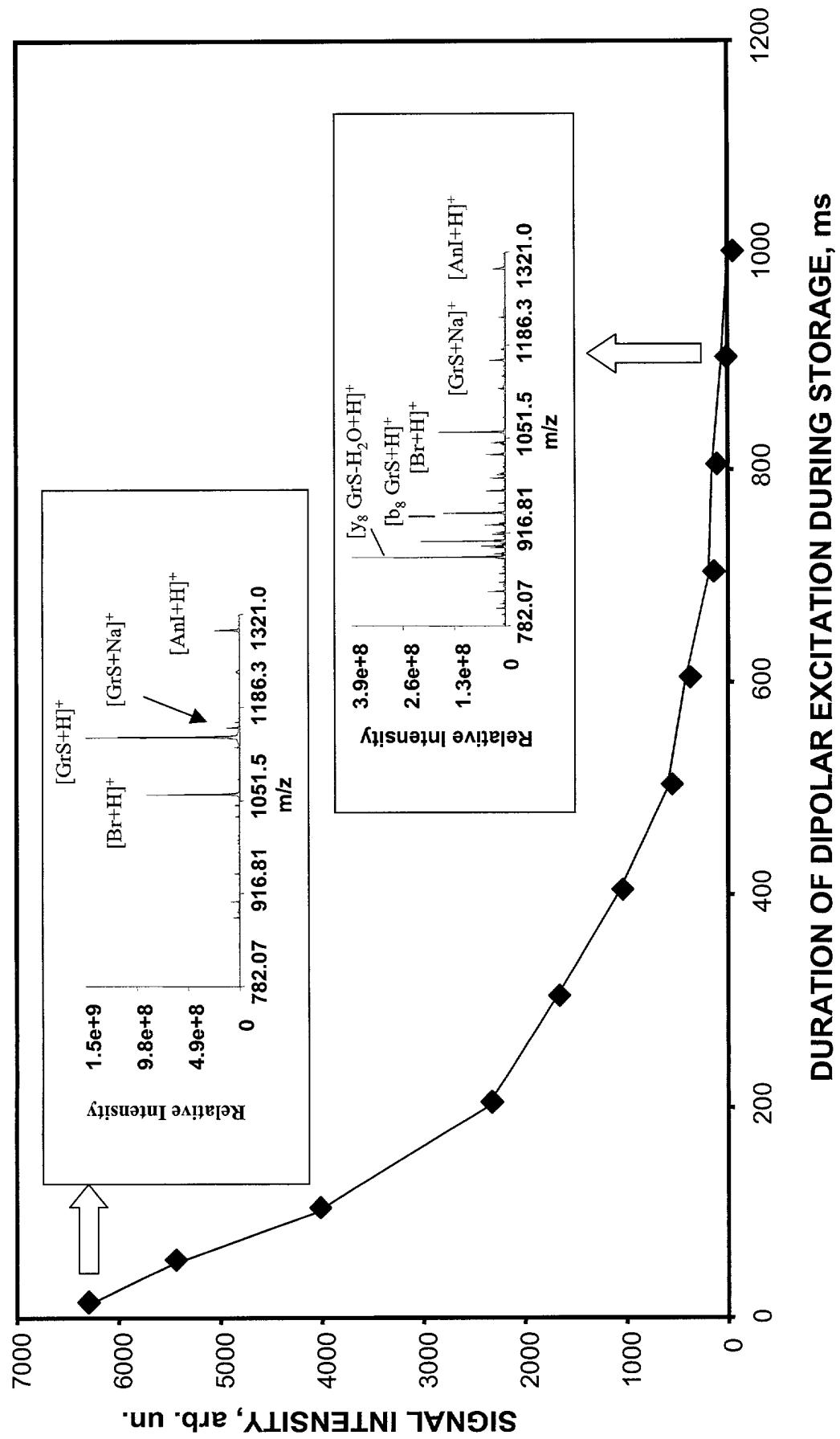


FIGURE 6

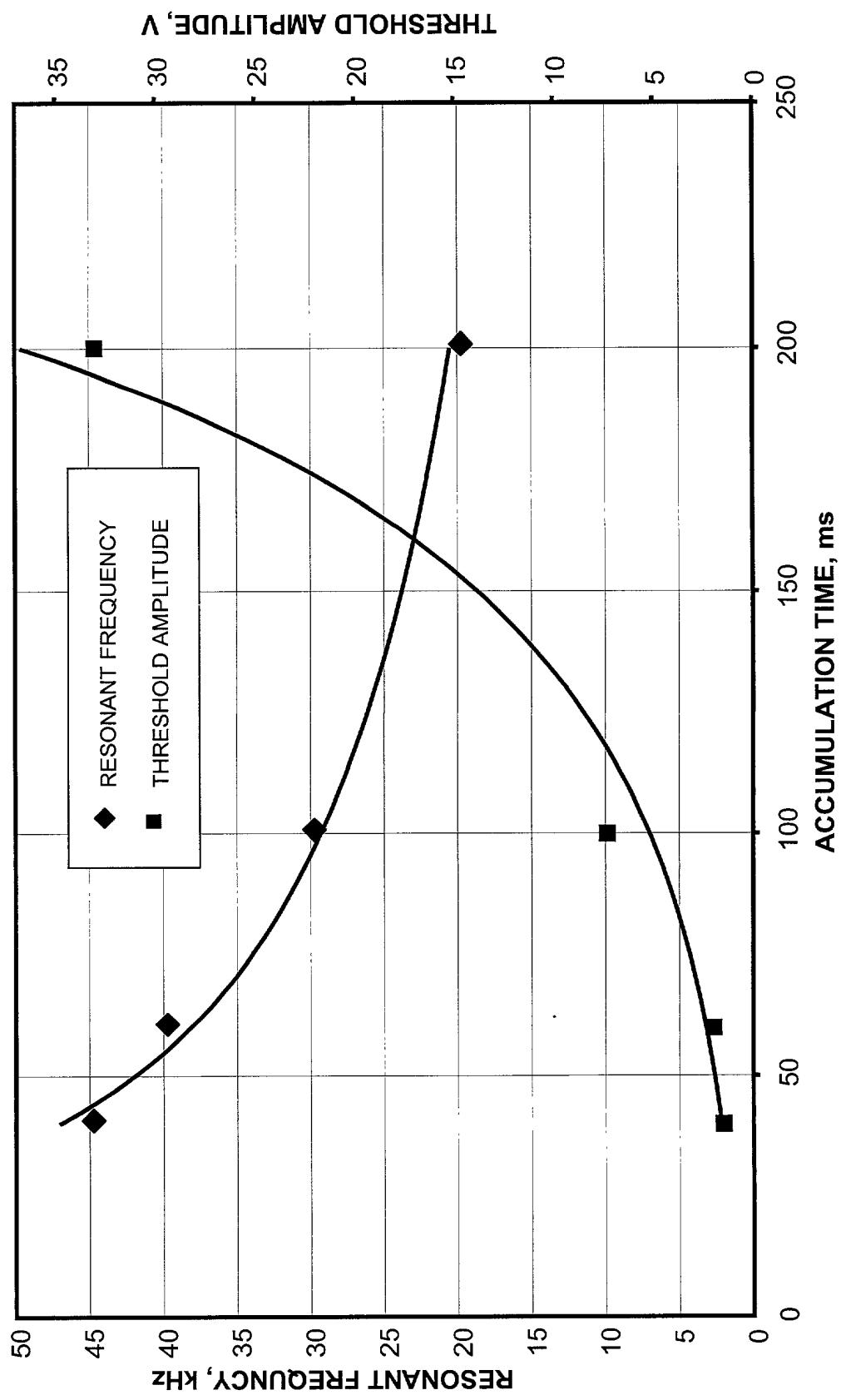


FIGURE 7

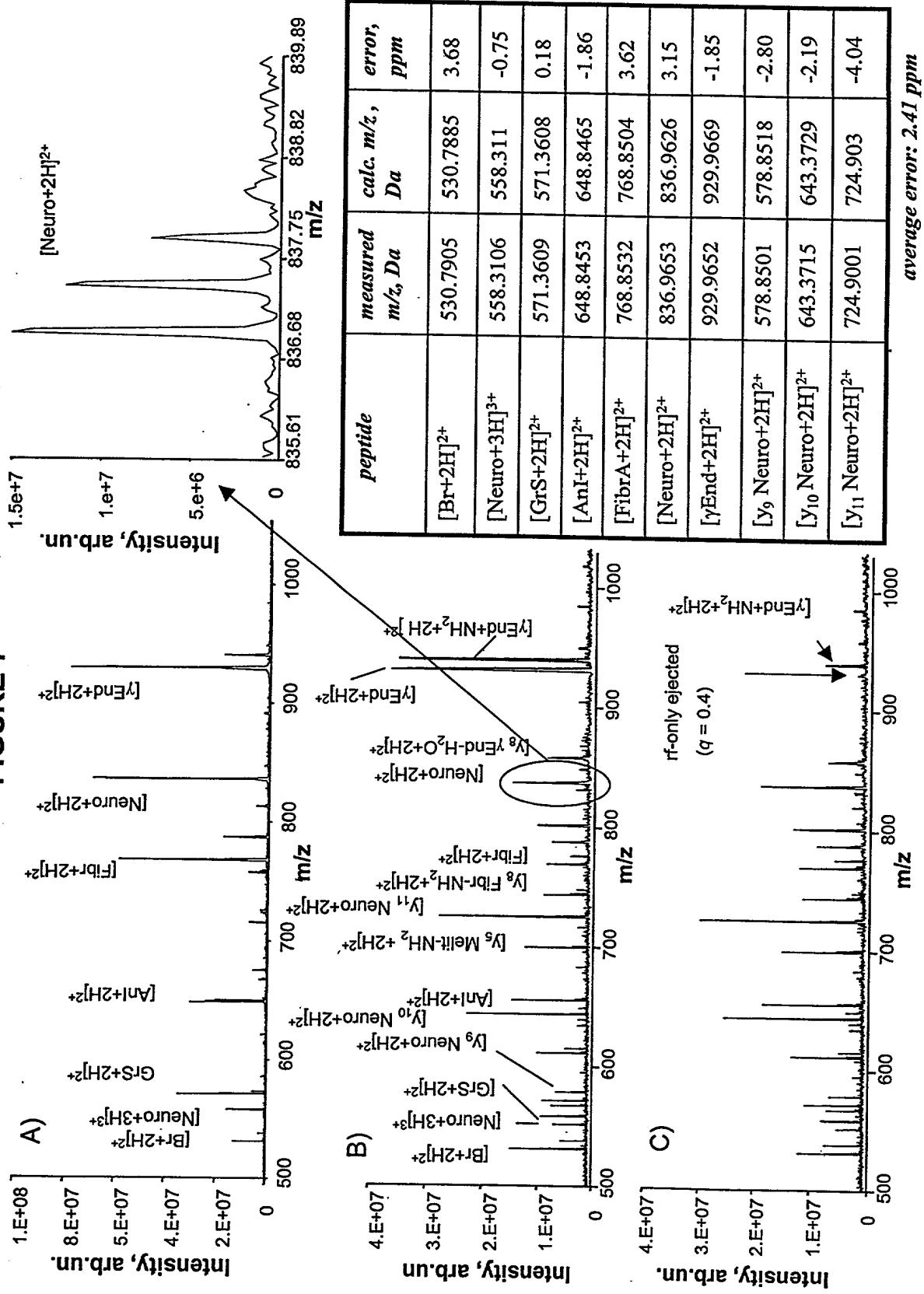
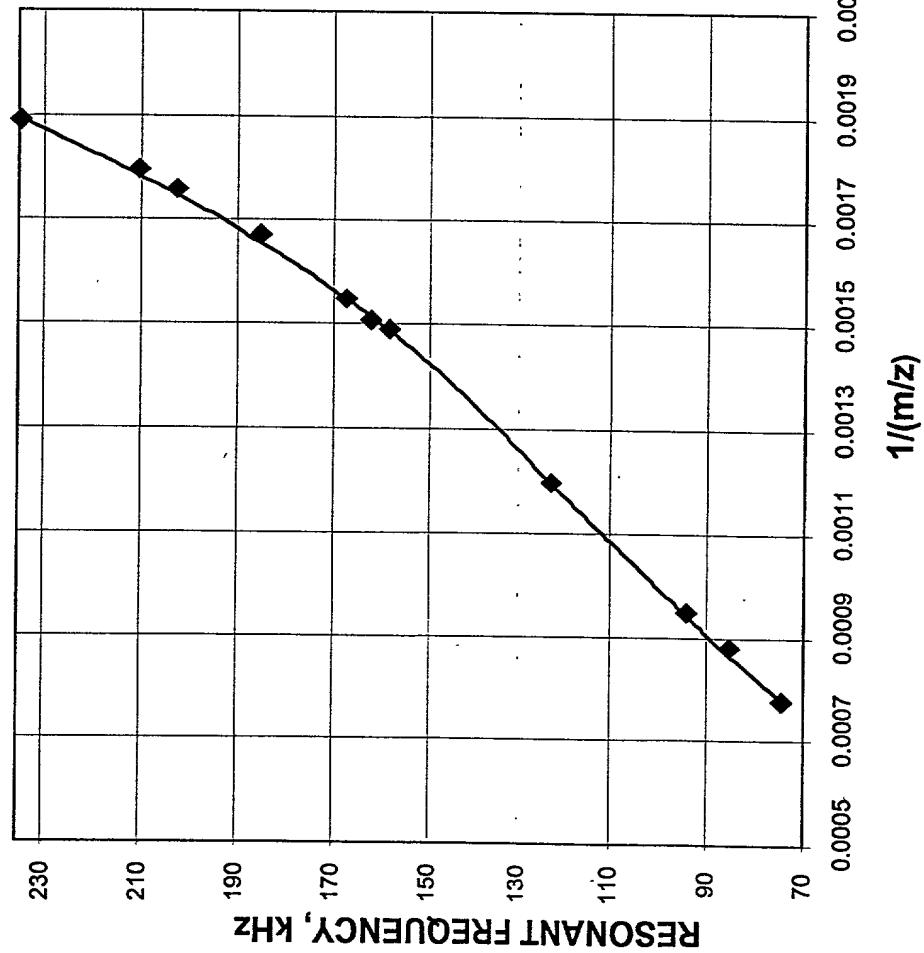


FIGURE 8

$$f_{\text{interpol}}(\text{Hz}) = 7.009470 \times 10^{13} x(1/\text{m/z})^3 + 2.299154 \times 10^{11} x(1/\text{m/z})^2 + 3.614403 \times 10^8 x(1/\text{m/z}) + 1.007772 \times 10^5$$



peptide	$f_{\text{expt}}(\text{Hz}),$ experiment	$f_{\text{predict}}(\text{Hz}),$ predicted	Maximum resolution
[Br+2H] ²⁺	234500	232773.47	135
[Neuro+3H] ³⁺	210500	211722.22	172
[GrS+2H] ²⁺	202500	203511.93	200
[AnI+2H] ²⁺	167500	166711.62	212
[SubP+2H] ²⁺	158500	158145.75	447
[Neuro+2H] ²⁺	122500	122390.09	1114
[Br+H] ⁺	94000	94334.15	280
[GrS+H] ⁺	85000	86457.77	58
[AngI+H] ⁺	74500	73330.01	64

FIGURE 9

